

AUTHOR INDEX

- | | | |
|-------------------------|-------------|--|
| AFEK, Y. | 873 | Atomic Snapshots of Shared Memory |
| AFRATI, F. | 891 | The Parallel Complexity of Simple Logic Programs |
| ANGLUIN, D. | 185 | Learning Read-Once Formulas with Queries |
| ARNBORG, S. | 1134 | An Algebraic Theory of Graph Reduction |
| ATTIYA, H. | 873 | See Afek, Y. |
| BAADER, F. | 477 | Unification in Commutative Theories, Hilbert's Basis Theorem, and Gröbner Bases |
| BACELLI, F. | 1209 | Extremal Scheduling of Parallel Processing with and without Real-Time Constraints |
| BAETEN, J. C. M. | 653 | Decidability of Bisimulation Equivalence for Processes Generating Context-Free Languages |
| BERGSTRA, J. A. | 653 | See Baeten, J. C. M. |
| BHATT, S. | 741 | Taking Random Walks to Grow Trees in Hypercubes |
| BSHOUTY, N. H. | 211 | On the Complexity of Functions for Random Access Machines |
| CAI, J.-Y. | 741 | See Bhatt, S. |
| CANNY, J. | 1048 | See Donald, B. |
| COHEN, E. | 791 | Strongly Polynomial-Time and NC Algorithms for Detecting Cycles in Periodic Graphs |
| COFFMAN, E. G. | 991 | Proof of the 4/3 Conjecture for Preemptive vs. Nonpreemptive Two-Processor Scheduling |
| COPPERSMITH, D. | 421 | Random Walks on Weighted Graphs and Applications to On-Line Algorithms |
| COURCELLE, B. | 1134 | See Arnborg, S. |
| DIAS, D. M. | 831 | See Yu, P. S. |
| DOLEV, D. | 17 | Perfectly Secure Message Transmission |
| | 873 | See Afek, Y. |
| DONALD, B. | 1048 | Kinodynamic Motion Planning |
| DOYLE, P. | 421 | See Coppersmith, D. |
| DWORK, C. | 17 | See Dolev, D. |
| FEKETE, A. | 1087 | The Impossibility of Implementing Reliable Communication in the Face of Crashes |
| FONLUPT, J. | 1165 | Dynamic Programming and the Graphical Traveling Salesman Problem |
| GAFNI, E. | 873 | See Afek, Y. |
| GAIFMAN, H. | 683 | Undecidable Optimization Problems for Database Logic Programs |
| GALLIER, J. | 1 | An Algorithm for Finding Canonical Sets of Ground Rewrite Rules in Polynomial Time |
| GAREY, M. R. | 991 | See Coffman, E. G. |
| GIVAN, R. | 246 | See McAllester, D., Taxonomic Syntax for First Order Inference |
| GOLUMBIC, M. C. | 1108 | Complexity and Algorithms for Reasoning about Time: A Graph-Theoretic Approach |
| GÜN, L. | 1188 | See Jean-Marie, A. |
| HALPERN, J. Y. | 917 | Knowledge, Probability, and Adversaries |
| HARPER, R. | 143 | A Framework for Defining Logics |
| HELLERSTEIN, L. | 185 | See Angluin, D. |
| HOBBY, J. D. | 48 | Generating Automatically Tuned Bitmaps from Outlines |
| HONSELL, F. | 143 | See Harper, R. |
| JEAN-MARIE, A. | 1188 | Parallel Queues with Resequencing |
| JOHNSON, C. A. | 536 | Factorization and Circuit in the Connection Method |
| KARLOFF, H. J. | 454 | Randomized Algorithms and Pseudorandom Numbers |
| KARP, R. M. | 765 | Randomized Parallel Algorithms to Backtrack Search and Branch-and-Bound Computation |
| KARPINSKI, M. | 185 | See Angluin, D. |

AUTHOR INDEX

- | | | |
|-------------------------|-------------|--|
| AFEK, Y. | 873 | Atomic Snapshots of Shared Memory |
| AFRATI, F. | 891 | The Parallel Complexity of Simple Logic Programs |
| ANGLUIN, D. | 185 | Learning Read-Once Formulas with Queries |
| ARNBORG, S. | 1134 | An Algebraic Theory of Graph Reduction |
| ATTIYA, H. | 873 | See Afek, Y. |
| BAADER, F. | 477 | Unification in Commutative Theories, Hilbert's Basis Theorem, and Gröbner Bases |
| BACELLI, F. | 1209 | Extremal Scheduling of Parallel Processing with and without Real-Time Constraints |
| BAETEN, J. C. M. | 653 | Decidability of Bisimulation Equivalence for Processes Generating Context-Free Languages |
| BERGSTRA, J. A. | 653 | See Baeten, J. C. M. |
| BHATT, S. | 741 | Taking Random Walks to Grow Trees in Hypercubes |
| BSHOUTY, N. H. | 211 | On the Complexity of Functions for Random Access Machines |
| CAI, J.-Y. | 741 | See Bhatt, S. |
| CANNY, J. | 1048 | See Donald, B. |
| COHEN, E. | 791 | Strongly Polynomial-Time and NC Algorithms for Detecting Cycles in Periodic Graphs |
| COFFMAN, E. G. | 991 | Proof of the 4/3 Conjecture for Preemptive vs. Nonpreemptive Two-Processor Scheduling |
| COPPERSMITH, D. | 421 | Random Walks on Weighted Graphs and Applications to On-Line Algorithms |
| COURCELLE, B. | 1134 | See Arnborg, S. |
| DIAS, D. M. | 831 | See Yu, P. S. |
| DOLEV, D. | 17 | Perfectly Secure Message Transmission |
| | 873 | See Afek, Y. |
| DONALD, B. | 1048 | Kinodynamic Motion Planning |
| DOYLE, P. | 421 | See Coppersmith, D. |
| DWORK, C. | 17 | See Dolev, D. |
| FEKETE, A. | 1087 | The Impossibility of Implementing Reliable Communication in the Face of Crashes |
| FONLUPT, J. | 1165 | Dynamic Programming and the Graphical Traveling Salesman Problem |
| GAFNI, E. | 873 | See Afek, Y. |
| GAIFMAN, H. | 683 | Undecidable Optimization Problems for Database Logic Programs |
| GALLIER, J. | 1 | An Algorithm for Finding Canonical Sets of Ground Rewrite Rules in Polynomial Time |
| GAREY, M. R. | 991 | See Coffman, E. G. |
| GIVAN, R. | 246 | See McAllester, D., Taxonomic Syntax for First Order Inference |
| GOLUMBIC, M. C. | 1108 | Complexity and Algorithms for Reasoning about Time: A Graph-Theoretic Approach |
| GÜN, L. | 1188 | See Jean-Marie, A. |
| HALPERN, J. Y. | 917 | Knowledge, Probability, and Adversaries |
| HARPER, R. | 143 | A Framework for Defining Logics |
| HELLERSTEIN, L. | 185 | See Angluin, D. |
| HOBBY, J. D. | 48 | Generating Automatically Tuned Bitmaps from Outlines |
| HONSELL, F. | 143 | See Harper, R. |
| JEAN-MARIE, A. | 1188 | Parallel Queues with Resequencing |
| JOHNSON, C. A. | 536 | Factorization and Circuit in the Connection Method |
| KARLOFF, H. J. | 454 | Randomized Algorithms and Pseudorandom Numbers |
| KARP, R. M. | 765 | Randomized Parallel Algorithms to Backtrack Search and Branch-and-Bound Computation |
| KARPINSKI, M. | 185 | See Angluin, D. |

KLOP, J. W.	653	See Baeten, J. C. M.
KNESSL, C.	1238	On the Sojourn Time Distribution in a Finite Capacity Processor Shared Queue
LA PAUGH, A. S.	224	Recontamination Does Not Help to Search a Graph
LENGAUER, T.	368	Efficient Decision Procedures for Graph Properties on Context-Free Graph Languages
LEUNG, K. K.	394	An Execution/Sleep Scheduling Policy for Serving an Additional Job in Priority Queuing Systems
LAVENBERG, S. S.	831	See Yu, P. S.
LINIAL, N.	607	Constant Depth Circuits, Fourier Transform, and Learnability
LIU, Z.	1209	See Baccelli, F.
LUO, Z.-Q.	1019	On the Communication Complexity of Distributed Algebraic Computation
LYNCH, N.	1087	See Fekete, A.
MAIRSON, H.	683	See Gaifman, H.
MANSOUR, Y.	1087	See Fekete, A.
	607	See Linial, N.
MAREK, V. W.	963	Modal Nonmonotonic Logics: Ranges, Characterization, Computation
MCALLESTER, D.	284	Automatic Recognition of Tractability in Inference Relations
	246	Taxonomic Syntax for First Order Inference
MEGIDDO, N.	791	See Cohen, E.
MEHLHORN, K.	621	Dynamic Interpolation Search
MERRITT, M.	873	See Afek, Y.
MURRAY, N. V.	504	Dissolution: Making Paths Vanish
NACHEF, A.	1165	See Fonlupt, J.
NARENDRAN, P.	1	See Gallier, J.
NEIGER, G.	334	Simulating Synchronized Clocks and Common Knowledge in Distributed Systems
NELSON, R.	714	A Performance Evaluation of Several Priority Policies for Parallel Processing Systems
NICOL, D. M.	304	The Cost of Conservative Synchronization in Parallel Discrete Event Simulations
NISAN, N.	607	See Linial, N.
OVERMARS, M. H.	635	See van Kreveld, M. J.
PAPADIMITRIOU, C. H.	891	See Afrati, F.
PITT, L.	95	The Minimum Consistent DFA Problem Cannot Be Approximated within Any Polynomial
PLAISTED, D.	1	See Gallier, J.
PLOTKIN, G.	143	See Harper, R.
PROSKUROWSKI, A.	1134	See Amborg, S.
RAATZ, S.	1	See Gallier, J.
RAGHAVAN, P.	421	See Coppersmith, D.
	454	See Karloff, H. J.
REIF, J.	1048	See Donald, B.
ROSENTHAL, E.	504	See Murray, N. V.
SAGIV, Y.	683	See Gaifman, H.
SCHWARZ, G. F.	963	See Marek, V. W.
SEESE, D.	1134	See Amborg, S.
SHAMIR, R.	1108	See Golumbic, M. C.
SHAVIT, N.	873	See Afek, Y.
SNIR, M.	421	See Coppersmith, D.
SNYDER, W.	1	See Gallier, J.
SPINELLI, J.	1087	See Fekete, A.
TAY, Y. C.	1067	On the Optimality of Strategies for Multiple Joins

TOUEG, S.	334	See Neiger, G.
TOWSLEY, D.	1209	See Baccelli, F.
	714	See Nelson, R.
TRUSZCZYŃSKI, M.	963	See Marek, V. W.
TSAKALIDIS, A.	621	See Mehlhorn, K.
TSITSIKLIS, J. N.	1019	See Luo, Z.-Q.
TUTTLE, M. R.	917	See Halpern, J. Y.
VAN KREVELD, M. J.	635	Union-Copy Structures and Dynamic Segment Trees
VARDI, M. Y.	683	See Gaifman, H.
WAARTS, O.	17	See Dolev, D.
WANG, T.-C.	558	Z-Module Reasoning: An Equality-Oriented Proving Method with Built-In Ring Axioms
WANKE, E.	368	See Lengauer, T.
WARMUTH, M. K.	95	See Pitt, L.
XAVIER, P.	1048	See Donald, B.
YU, P. S.	831	On the Analytical Modeling of Database Concurrency Control
YUNG, M.	17	See Dolev, D.
ZHANG, Y.	765	See Karp, R. M.

SUBJECT INDEX

- | | | |
|--|------|---|
| ANALYSIS OF ALGORITHMS | 211 | N. H. Bshouty—On the Complexity of Functions for Random Access Machines |
| | 421 | D. Coppersmith, P. Doyle, P. Raghavan, and M. Snir—Random Walks on Weighted Graphs and Applications to On-Line Algorithms |
| | 454 | H. J. Karloff and P. Raghavan—Randomized Algorithms and Pseudorandom Numbers |
| | 224 | A. S. LaPaugh—Recontamination Does Not Help to Search a Graph |
| ARTIFICIAL INTELLIGENCE | 477 | F. Baader—Unification in Commutative Theories, Hilbert's Basis Theorem, and Gröbner Bases |
| | 536 | C. A. Johnson—Factorization and Circuit in the Connection Method |
| | 963 | V. W. Marek, G. F. Schwartz, and M. Truszczyński—Modal Nonmonotonic Logics: Ranges, Characterization, Computation |
| | 504 | N. V. Murray and E. Rosenthal—Dissolution: Making Paths Vanish |
| | 246 | D. McAllester and R. Givan—Taxonomic Syntax for First Order Inference |
| | 558 | T.-C. Wang—Z-Module Reasoning: An Equality-Oriented Proving Method with Built-In Ring Axioms |
| COMBINATORIAL OPTIMIZATION | 791 | E. Cohen and N. Megiddo—Strongly Polynomial-Time and NC Algorithms for Detecting Cycles in Periodic Graphs |
| COMPLEXITY OF ALGORITHMS | 1019 | Z.-Q. Luo and J. N. Tsitsiklis—On the Communication Complexity of Distributed Algebraic Computation |
| | 991 | E. G. Coffman, Jr. and M. R. Garey—Proof of the 4/3 Conjecture for Preemptive vs. Nonpreemptive Two-Processor Scheduling |
| COMPLEXITY THEORY | 607 | N. Linial, Y. Mansour, and N. Nisan—Constant Depth Circuits, Fourier Transform, and Learnability |
| | 1048 | B. Donald, P. Xavier, J. Canny, and J. Reif—Kinodynamic Motion Planning |
| COMPUTATIONAL GEOMETRY | | |
| COMPUTATIONAL LOGIC | 264 | D. McAllester—Automatic Recognition of Tractability in Inference Relations |
| COMPUTER SYSTEMS MODELING AND ANALYSIS | 304 | D. M. Nicol—The Cost of Conservative Synchronization in Parallel Discrete Event Simulations |
| | 1188 | A. Jean-Marie and L. Gün—Parallel Queues with Resequencing |
| | 831 | P. S. Yu, D. M. Dias, and S. S. Lavenberg—On the Analytical Modeling of Database Concurrency Control |
| | 1209 | F. Baccelli, Z. Liu, and D. Towsley—Extremal Scheduling of Parallel Processing with and without Real-Time Constraints |
| | 1238 | C. Knessl—On the Sojourn Time Distribution in a Finite Capacity Processor Shared Queue |
| DATA STRUCTURES AND ALGORITHMS | 621 | K. Mehlhorn and A. Tsakalidis—Dynamic Interpolation Search |
| | 635 | M. J. van Kreveld and M. H. Overmars—Union-Copy Structures and Dynamic Segment Trees |
| DATABASE THEORY | 1067 | Y. C. Tay—On the Optimality of Strategies for Multiple Joins |
| DEDUCTIVE SYSTEMS AND EQUATIONAL REASONING | 1 | J. Gallier, P. Narendran, D. Plaisted, S. Raatz, and W. Snyder—An Algorithm for Finding Canonical Sets of Ground Rewrite Rules in Polynomial Time |
| DISTRIBUTED COMMUNICATION | 17 | D. Dolev, C. Dwork, O. Waarts, and M. Yung—Perfectly Secure Message Transmission |
| DISTRIBUTED COMPUTING | 873 | Y. Afek, H. Attiya, D. Dolev, E. Gafni, M. Merritt, and N. Shavit—Atomic Snapshots of Shared Memory |
| | 1087 | A. Fekete, N. Lynch, Y. Mansour, and J. Spinelli—The Impossibility of Implementing Reliable Communication in the Face of Crashes |
| | 334 | G. Neiger and S. Toueg—Simulating Synchronized Clocks and Common Knowledge in Distributed Systems |
| FORMAL LANGUAGES | 653 | J. C. M. Baeten, J. A. Bergstra, and J. W. Klop—Decidability of Bisimulation Equivalence for Processes Generating Context-Free Languages |

GRAPH THEORY	1108	M. C. Golumbic and R. Shamir—Complexity and Algorithms for Reasoning about Time: A Graph-Theoretic Approach
	368	T. Lengauer and E. Wanke—Efficient Decision Procedures for Graph Properties on Context-Free Graph Languages
GRAPHICS	48	J. D. Hobby—Generating Automatically Tuned Bitmaps from Outlines
LANGUAGES AND AUTOMATA THEORY	891	F. Afrati and C. H. Papadimitriou—The Parallel Complexity of Simple Logic Programs
LEARNING THEORY	95	L. Pitt and M. K. Warmuth—The Minimum Consistent DFA Problem Cannot Be Approximated Within Any Polynomial
LOGIC IN COMPUTER SCIENCE	1134	S. Arnborg, B. Courcelle, A. Proskurowski, and D. Seese—An Algebraic Theory of Graph Reduction
	683	H. Gaifman, H. Mairson, Y. Sagiv, and M. Y. Vardi—Undecidable Optimization Problems for Database Logic Programs
	917	J. Y. Halpern and M. R. Tuttle—Knowledge, Probability, and Adversaries
	143	R. Harper, F. Honsell, and G. Plotkin—A Framework for Defining Logics
MACHINE LEARNING	185	D. Angluin, L. Hellerstein, and M. Karpinski—Learning Read-Once Formulas with Queries
OPERATIONS RESEARCH	1165	J. Fonlupt and A. Nacheff—Dynamic Programming and the Graphical Traveling Salesman Problem
	714	R. Nelson and D. Towsley—A Performance Evaluation of Several Priority Policies for Parallel Processing Systems
PARALLEL COMPUTATION	741	S. Bhatt and J.-Y. Cai—Taking Random Walks to Grow Trees in Hypercubes
	765	R. M. Karp and Y. Zhang—Randomized Parallel Algorithms to Backtrack Search and Branch-and-Bound Computation
QUEUEING SYSTEMS	394	K. K. Leung—An Execution/Sleep Scheduling Policy for Serving an Additional Job in Priority Queueing Systems

